

**Requirements for B.S. Degree in Exercise Science  
Scientific Foundations Emphasis**

<b>1st Semester (Fall)</b>			
* 0	ENGL 101 English Composition		3
*	BIOL 101 Biological Principles I		4
*	EXSC 191 Physical Activity and Health		3
*	UNIV 101 Intro to University (EXSC)		3
*	Elective (MATH 111, 112, 115, or 116)		2-4
<b>Total semester hours</b>			<b>16</b>
<b>3rd Semester (Fall)</b>			
* ~	EXSC 223 Anatomy & Physiology I		4
0	ENGL Literature or SPCH 140 Public Comm		3
*	PHYS 201 General Physics I		3
*	PHYS 201L General Physics I Lab		1
*	CHEM 112 General Chemistry II		4
	Foreign Language 109		3
<b>Total semester hours</b>			<b>18</b>
<b>5th Semester (Fall)</b>			
* +	EXSC 530 Phys Msc Act		3
* +	EXSC 530L Phys Msc Act Lab		1
*	CHEM 333 Organic Chemistry I		3
*	CHEM 331L Organic Chemistry I Lab		1
	PSYC 101 Intro to Psychology		3
	HIST elective		3
<b>Total semester hours</b>			<b>14</b>
<b>7th Semester (Fall)</b>			
*	BIOL 302 Cell & Molecular Biology		3
*	BIOL 302L Cell & Molecular Biol Lab		1
	Social Science elective		3
*	Selective		3
*	Selective		3
	Elective (**PEDU 300)		3
<b>Total semester hours</b>			<b>16</b>

<b>2nd Semester (Spring)</b>			
* 0	ENGL 102 Composition & Literature		3
*	BIOL 102 Biological Principles II		4
*	CHEM 111 General Chemistry I		4
*	MATH 122 or 141 Calculus		3-4
<b>Total semester hours</b>			<b>14-15</b>
<b>4th Semester (Spring)</b>			
*	EXSC 224 Anatomy & Physiology II		4
	STAT 201 (or STAT 205) Statistics		3
	CSCE 102 (or CSCE 101) Comp Science		3
*	PHYS 202 General Physics II		3
*	PHYS 202L General Physics II Lab		1
	Foreign Language 110		3
<b>Total semester hours</b>			<b>17</b>
<b>6th Semester (Spring)</b>			
*	Selective		3
* +	(Recommended EXSC 531 and EXSC 531L)		
*	CHEM 334 Organic Chemistry II		3
*	CHEM 332L Organic Chemistry II Lab		1
	Fine Art		3
*	Elective		3
*	EPID 410 Prin of Epidemiology <i>(Required for students entering USC Fall 2010 or after)</i>		3
<b>Total semester hours</b>			<b>16</b>
<b>8th Semester (Spring)</b>			
* +	EXSC 351 Acq Motor Skills		3
* + #	EXSC 499 Independent Study		3
	SOCY 101 Intro to Sociology		3
*	Selective (EXSC 395)		3
	Elective		3
<b>Total semester hours</b>			<b>15</b>

\*\* PEDU 300 or HPEB 335: Student must take course or have First Aid & CPR Certification for graduation

# Requires completion of Health and Safety requirements before registering

\* Requires a grade of "C" or better

0 Non-english majors

~ EXSC 223 prerequisites: ENGL 101, ENGL 102, BIOL 101, BIOL102, CHEM 111, and MATH 122 or 141

+ Requires EXSC 224 as a prerequisite

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SELECTIVES		12 CREDITS	
* + #	EXSC 341 B	Practicum in Health Fitness	
* + #	EXSC 341 C	Practicum in Health Fitness	
* +	EXSC 395	Research Seminar	
* +	EXSC 410	Psychology of Physical Activity	
* +	EXSC 507	Exercise, Sport, and Nutrition	
* +	EXSC 531	Clinical Exercise Physiology and Lab	
* +	EXSC 535	Biomechanics	
* +	EXSC 541	Physiological Basis for Strength and Conditioning	
* +	EXSC 563	Phys Activity/Physical Dim of Aging	
* +	EXSC 620	Nutrition and Immunology	
* +	EXSC 666	Cardiorespiratory Exercise Physiology	
* +	EXSC 669	Skeletal Muscle Physiology: Form and Function	
* +	EXSC 695	Writing and Presenting in Research	

*	BIOL 250/L	Microbiology
*	BIOL 303	Fundamental Genetics
*	BIOL 431/L	Bacteriology
*	BIOL 460/L	General Physiology
*	BIOL 505/L	Developmental Biology I
*	BIOL 506/L	Developmental Biology II
*	BIOL 530	Histology
*	BIOL 531	Parasitology
*	BIOL 534/L	Animal Biology
*	BMED 389/L	Introduction to Infectious Diseases & Immunology
*	CHEM	Any course at 300 level or above
*	HPEB 502	Nutrition
*	HPEB 511	Health Problems in a Changing Society
*	PSYC 400	Survey of Learning and Memory
*	PSYC 410	Abnormal Psychology
*	PSYC 420	Developmental Psychology
*	PSYC 450	Sensation and Perception
*	PSYC 460	Physiological Psychology
*	PSYC 465	Health Psychology

A student must earn a grade of "C" or higher in any course taken as a Selective.

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- # Requires completion of Health and Safety requirements before registering
- \* Requires a grade of "C" or better
- 0 Non-english majors
- ~ EXSC 223 prerequisites: ENGL 101, ENGL 102, BIOL 101, BIOL102, CHEM 111, and MATH 122 or 141
- + Requires EXSC 224 as a prerequisite